

Vesicle

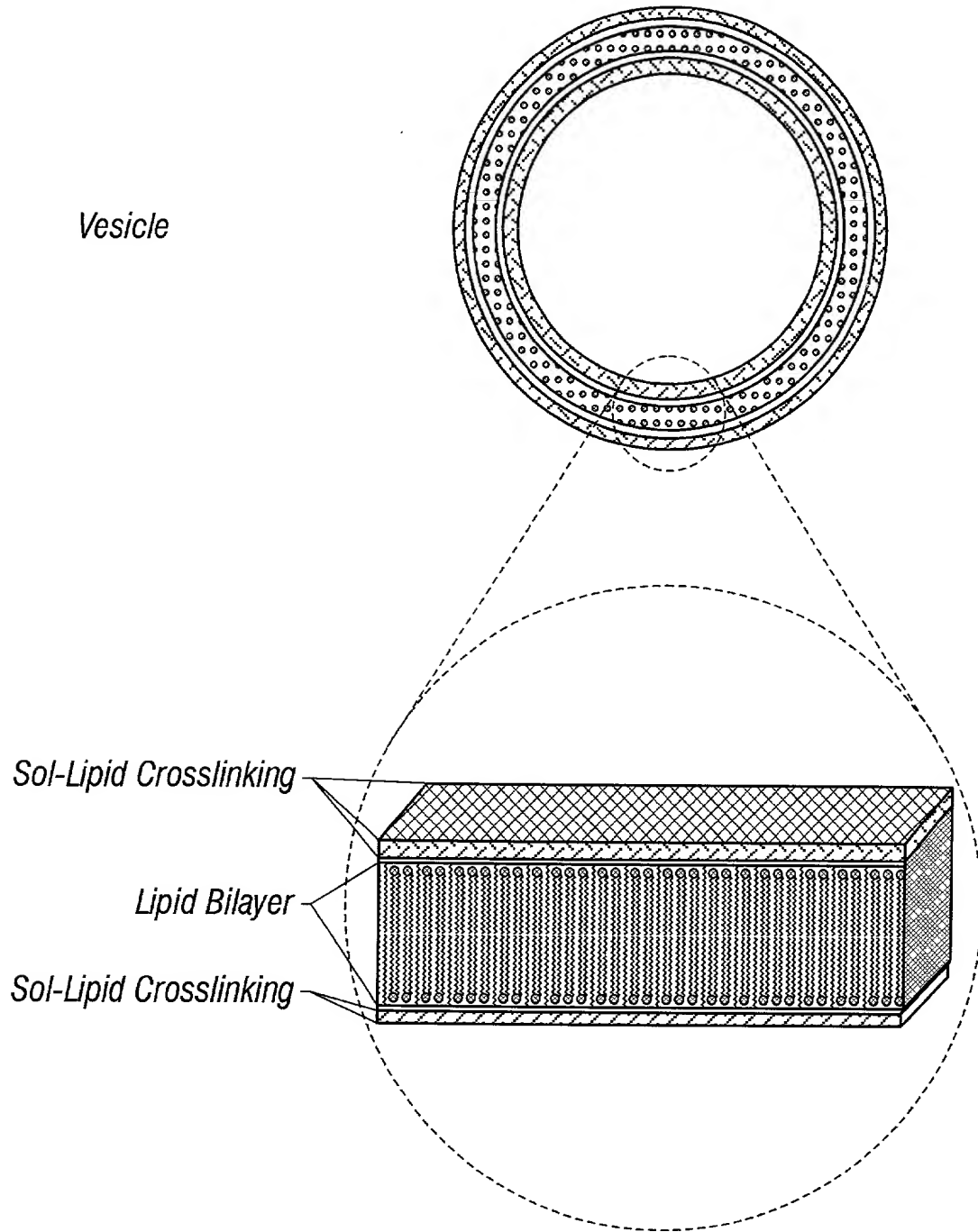


FIG. 1

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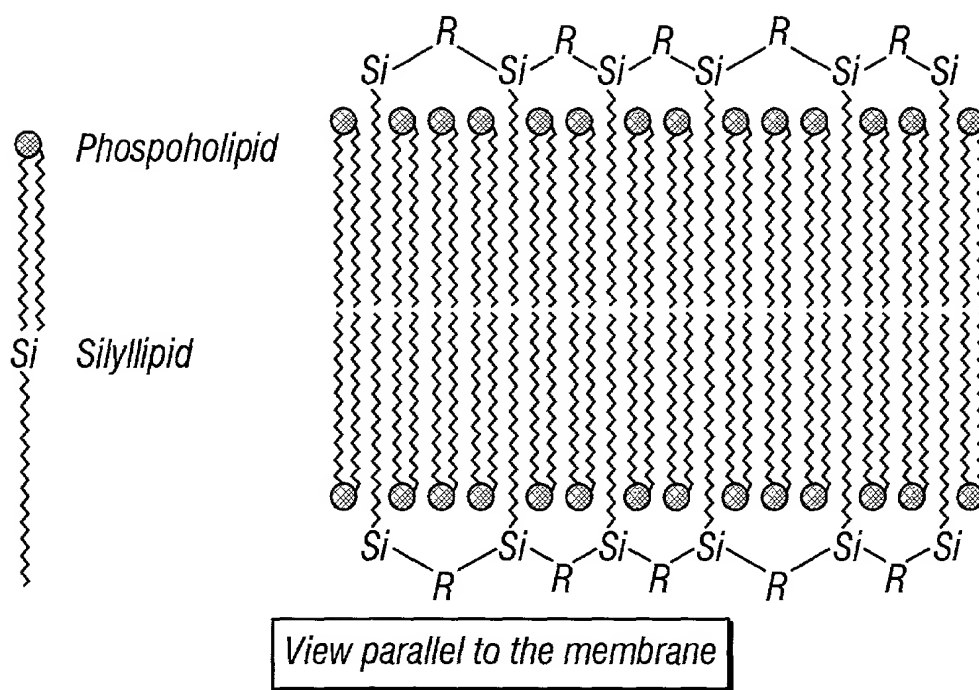


FIG. 2A

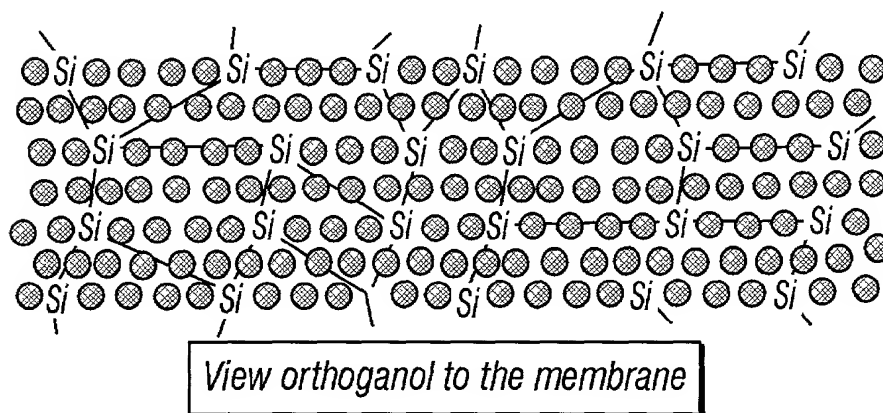


FIG. 2B

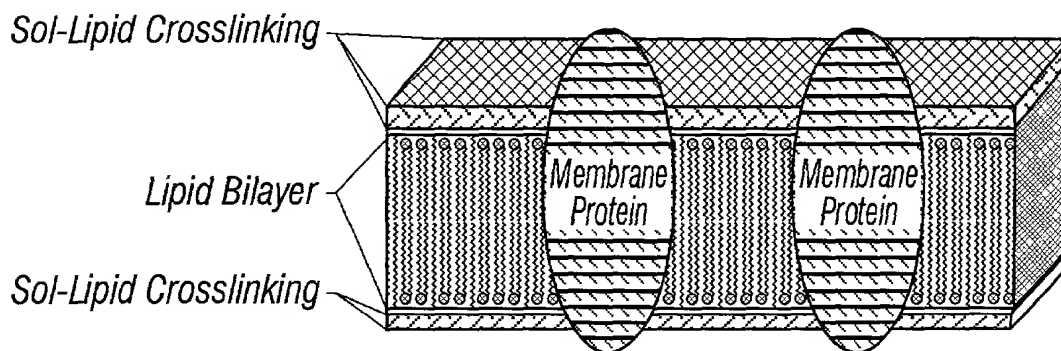


FIG. 3

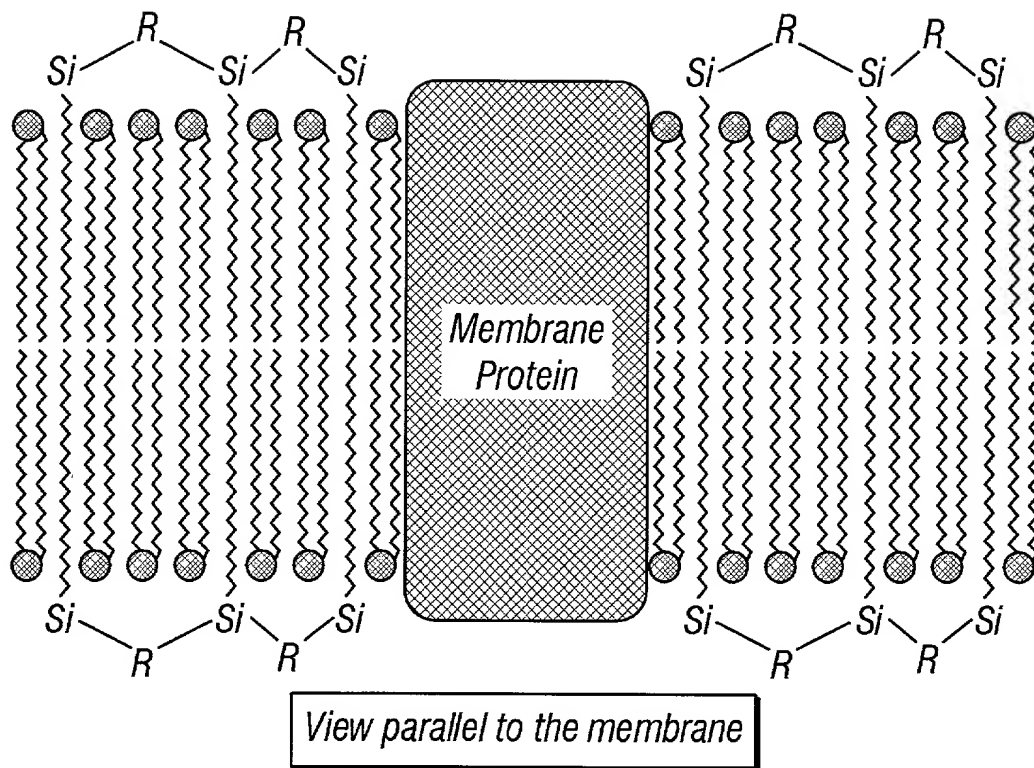


FIG. 4A

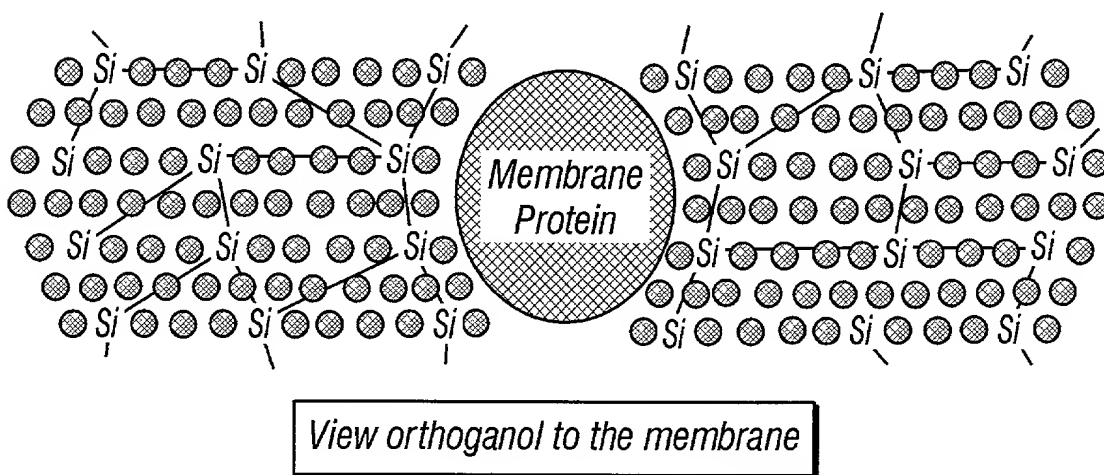
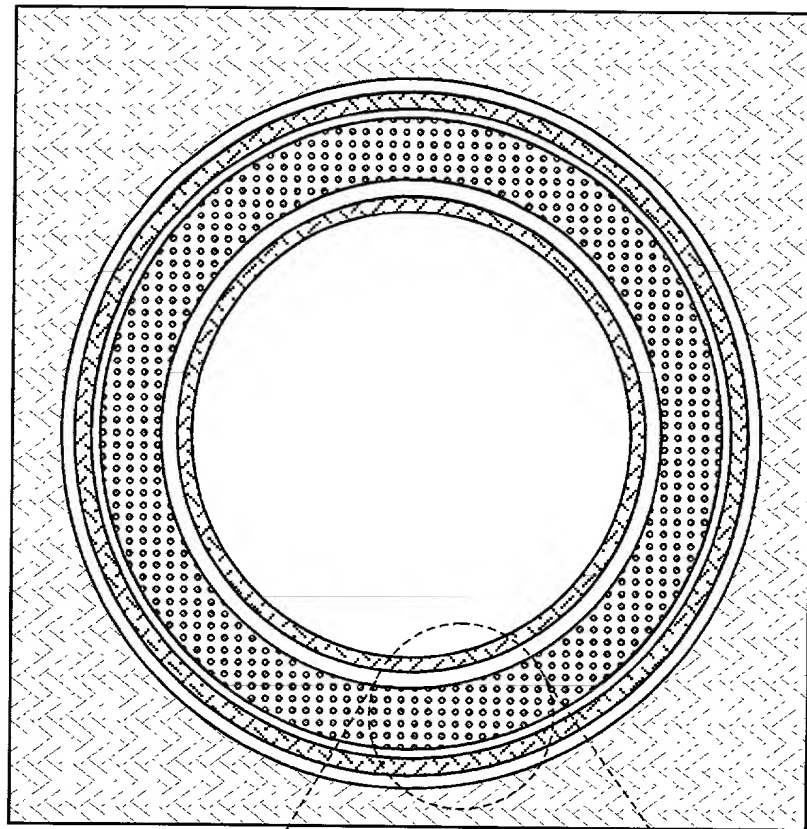


FIG. 4B



Hybrid Mixture
Sol-Gel
Condensed Silanol
Heads of Silyl-Lipid
Lipid Bilayer
or Multi-layer
Condensed Silanol
Heads of Silyl-Lipid

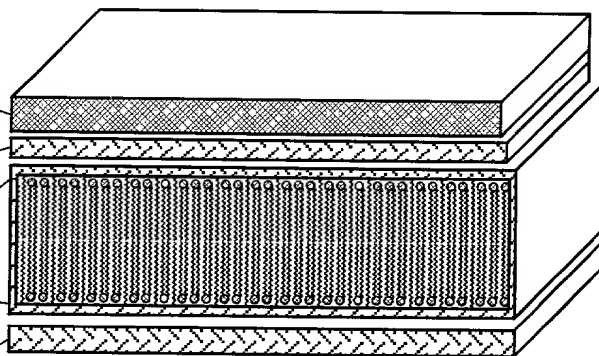


FIG. 5

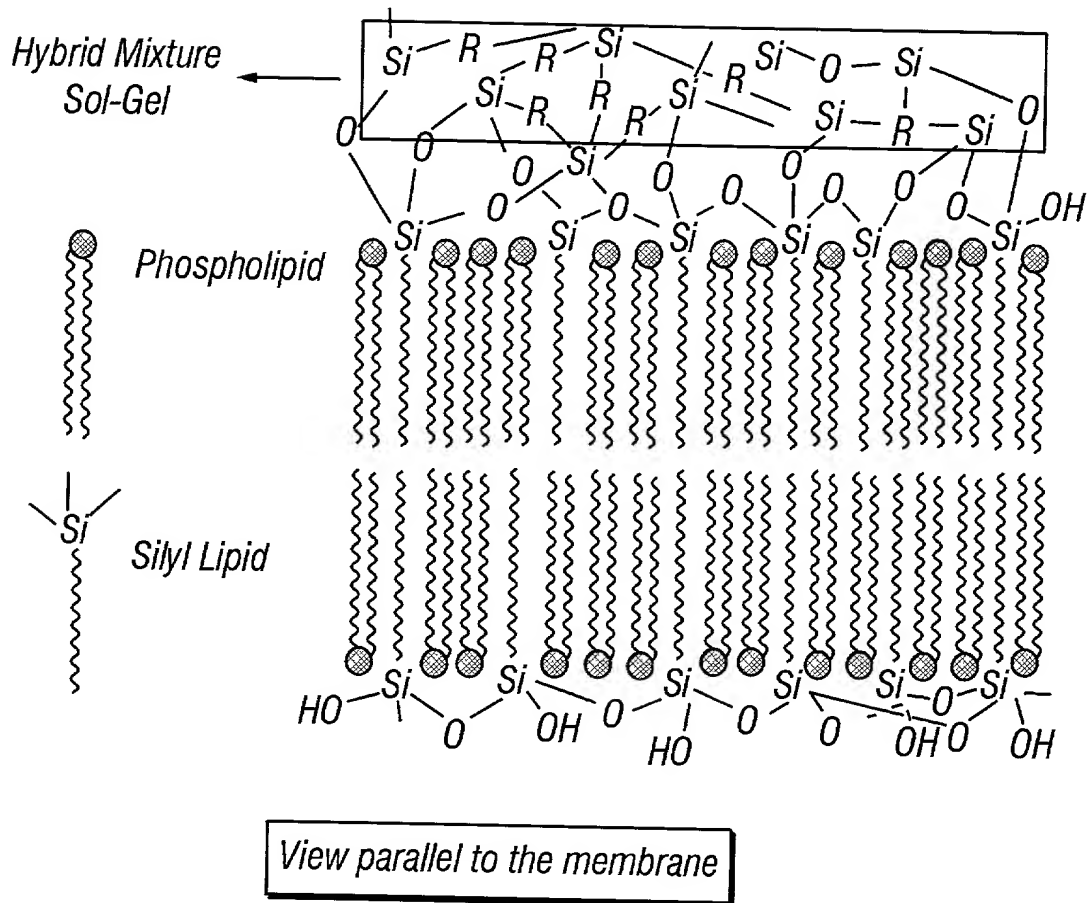


FIG. 6A

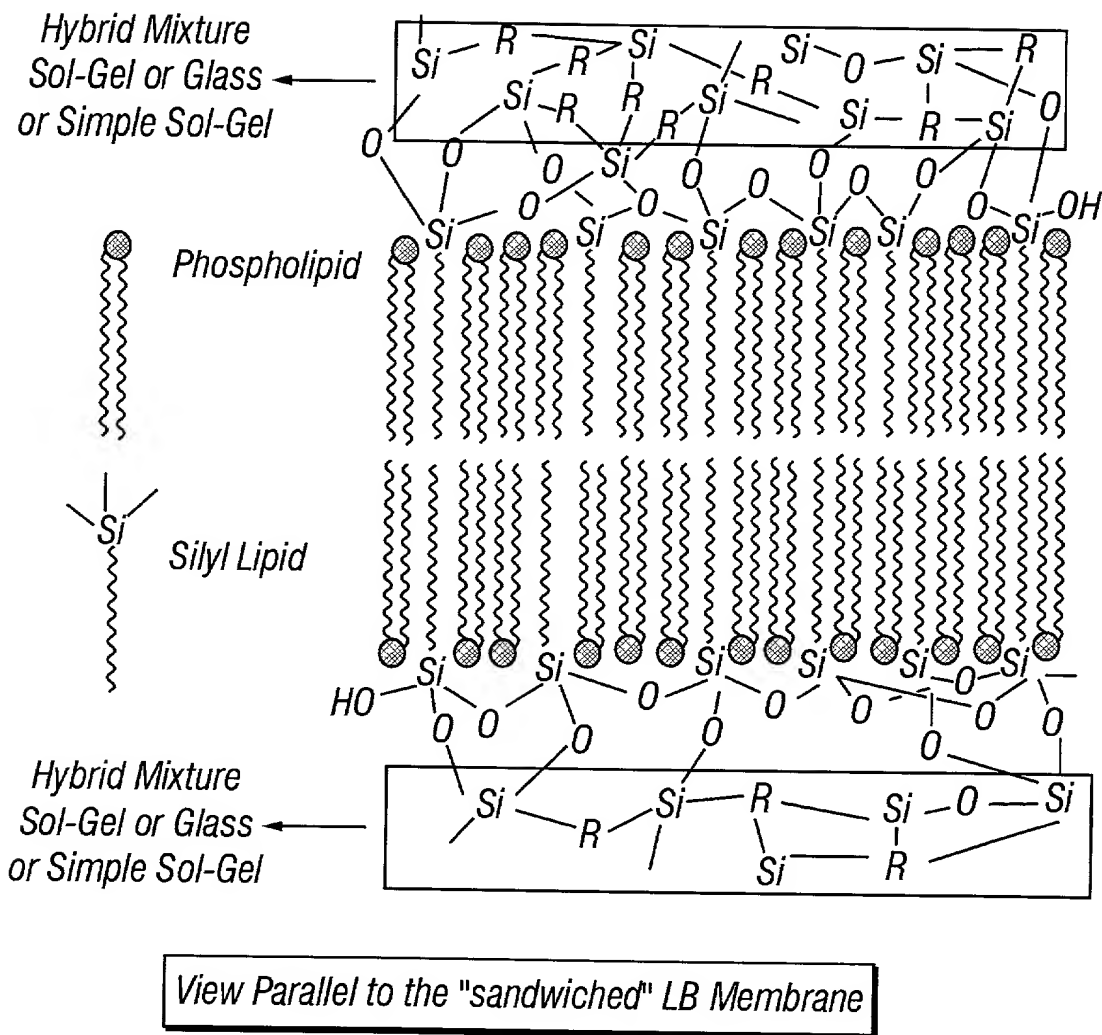
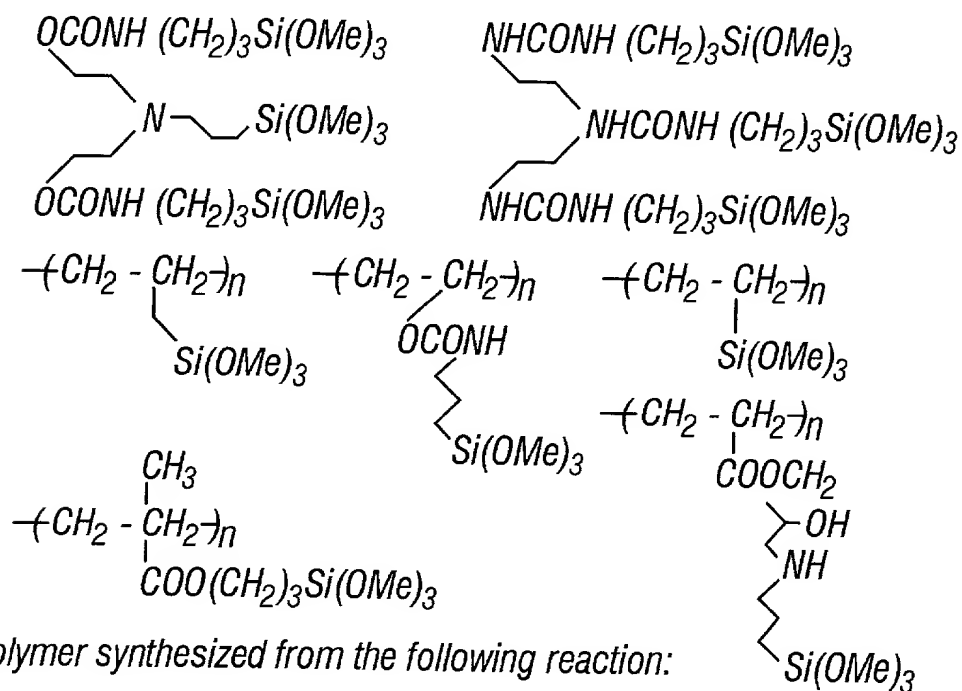
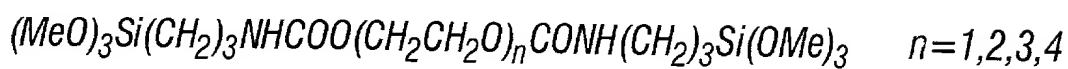
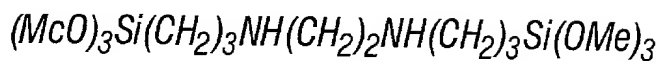
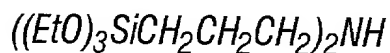
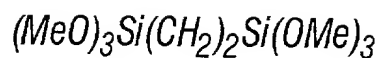


FIG. 6B



And polymer synthesized from the following reaction:

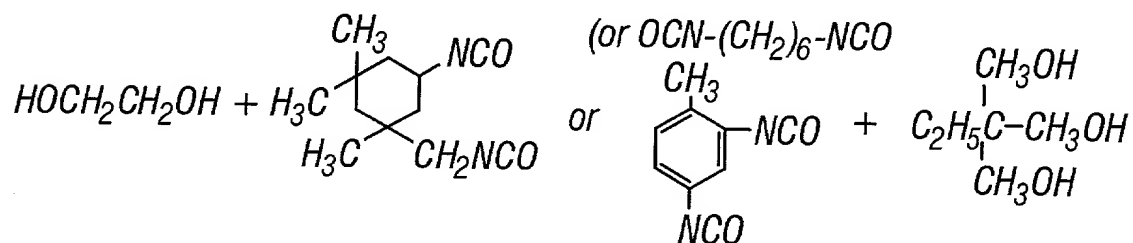


FIG. 7